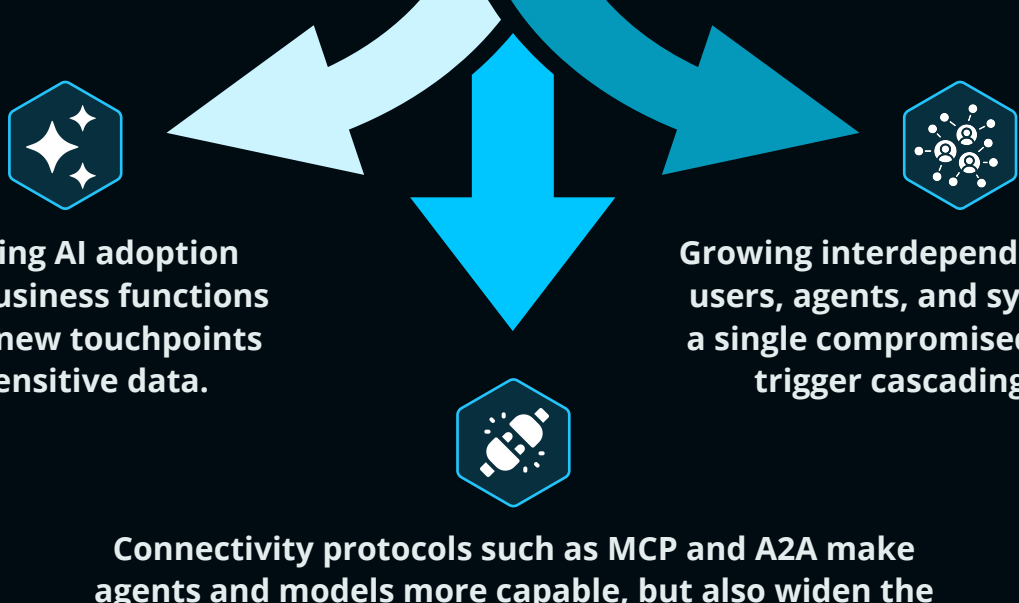


# Securing AI Systems with Identity-First Zero Trust

How enterprises can protect LLMs, agents, and AI workflows from emerging identity and access risks.

## The New AI Security Crossroads

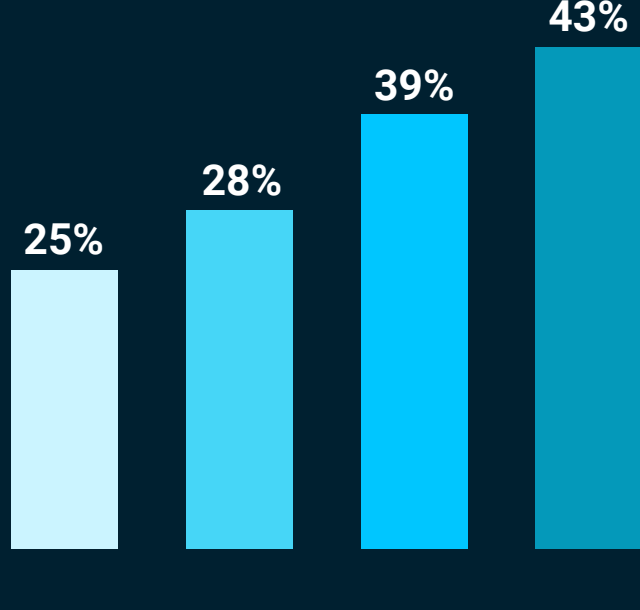
Enterprises are rapidly adopting GenAI, LLMs, and autonomous agents and as these systems connect across IT, OT, cloud, and edge, organizations arrive at a critical crossroads: AI is accelerating innovation, but also multiplying identity, access, and risks.



At this crossroads, enterprises must modernize their security strategy, shifting from user-only access models to verifying every identity, action, and interaction across the entire AI ecosystem.

## IDC Insights Snapshot

What IDC Says About Enterprise AI Security Priorities

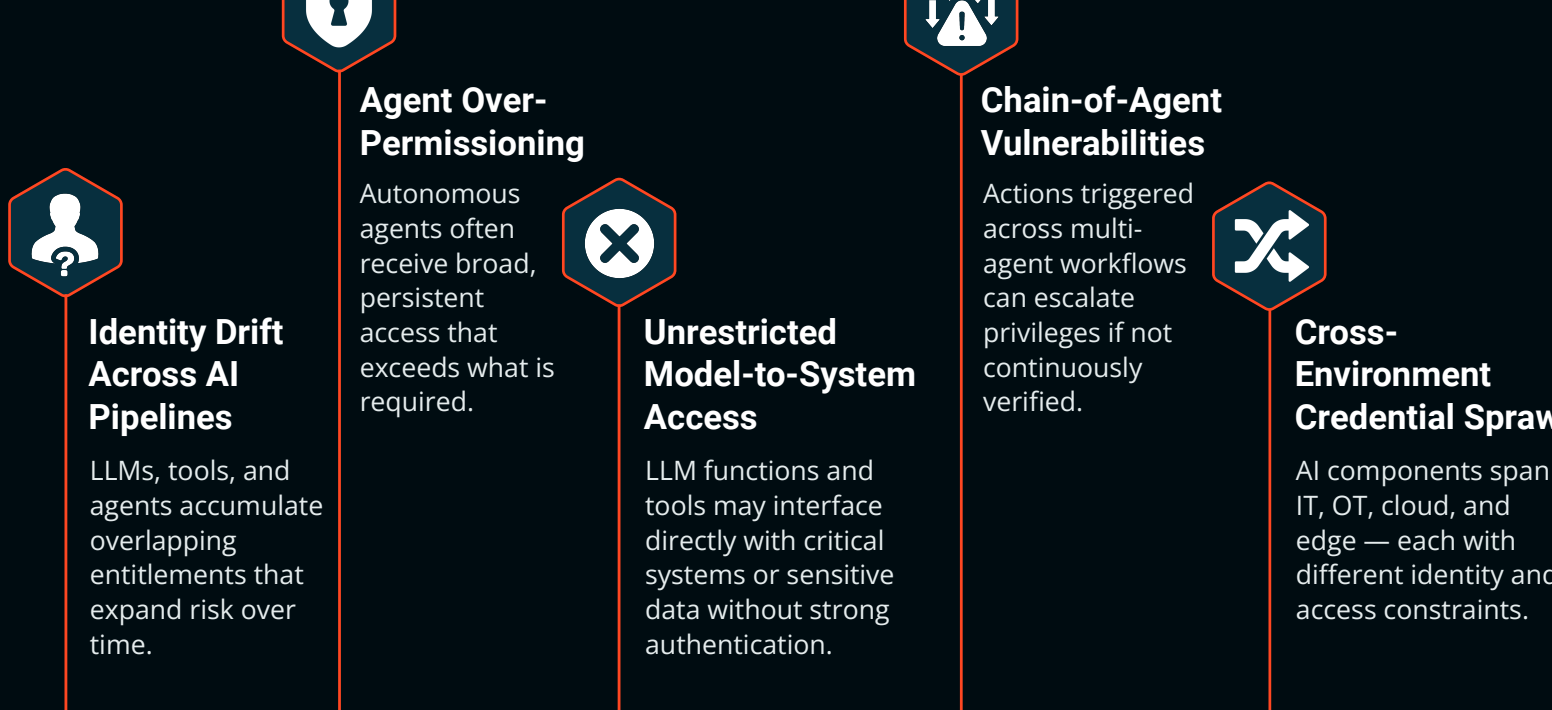


- 25% cite authentication & authorization as top challenges.
- 28% are expanding Zero Trust due to agentic AI.
- 39% worry GenAI will cause data leakage.
- 43% adopt Zero Trust for data security & governance.

IDC White Paper, sponsored by Xage Security, *Securing AI with Zero Trust: Managing Identity & MCP Risks*, #US53868625, October 2025.

## Top Identity-First AI Risks

AI introduces new identity vulnerabilities that cannot be addressed with traditional access models



## Identity-First Zero Trust for AI

Enterprises need a Zero Trust approach that treats users, agents, and models as first-class identities. A modern AI Zero Trust architecture requires:

- Unified Human + Machine Identity Control** across AI pipelines
- Boundary enforcement** between LLMs, agents, services, and data stores
- Dynamic, just-in-time entitlements** that eliminate standing privileges
- Policy-driven agent behavior** with continuous verification
- Context-aware guardrails** for sensitive prompts and system-initiated actions
- Cross-domain enforcement** that spans IT, OT, cloud, and edge environments

## Xage Zero Trust Fabric

Identity-first protection for AI, LLMs, and agents.



## Download the Full IDC White Paper

Learn how identity-first Zero Trust strengthens AI security across LLMs, autonomous agents, and enterprise workflows.



## Securing AI with Zero Trust: Managing Identity & MCP Risks

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